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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,730	07/01/2003	Lin-Shan Lee	LEEL121327	7721
26389 7590 07/18/2007 CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC			EXAMINER	
1420 FIFTH AVENUE		SMITS, TALIVALDIS IVARS		
SUITE 2800 SEATTLE, WA 98101-2347			ART UNIT	PAPER NUMBER
02.11122,			2626	
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			07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/612,730	LEE, LIN-SHAN			
Office Action Summary	Examiner	Art Unit			
	Talivaldis Ivars Smits	2626			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	L. sely filed the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on				
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL . 2b) This action is non-final.				
• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213~					
Disposition of Claims		•			
 4) Claim(s) 1-48 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-33 and 39-48 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 34-38 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on is/are: a)☒ acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	·				
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	ite			

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-33 and 39-48 are allowed. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowed because it recites speech-based information retrieval in Mandarin Chinese using as indexing terms adjacent ("overlapping") syllable segments of a specific number of syllables in sequence ("specific length"), wherein the specific length can be assigned arbitrarily.

While Lee-Feng Chien *et al* teach using Mandarin Chinese syllables for information retrieval in Mandarin Chinese, they do not teach the use of syllable sequences of arbitrary prespecified length as indexing terms to do so.

Claim 6 is allowed because it recites using Mandarin Chinese syllables separated by at least one syllable as indexing terms for speech-based information retrieval in Mandarin Chinese.

While Lee-Feng Chien *et al* teach using Mandarin Chinese syllables for information retrieval in Mandarin Chinese, they do not teach the use of syllables separated by an arbitrary prespecified number of syllables as indexing terms to do so.

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Dependent claims 2-33 and 39-48 are allowed because they further limit their independent claims or their parent claims.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim Objections

3. Claims 34-38 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend on another multiply-dependent claim. See MPEP § 608.01(n). In this instance the multiple dependence of claim 34 already includes multiple dependence on claims 12 and 14, which in turn are dependent on multiply-dependent claims 11 and 13, respectively. Accordingly, the claims 34-38 have not been further treated on the merits.

Conclusion -

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lin-Shan Lee et al (ICASSP 1997) teach using syllables for Mandarin voice record retrieval.

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Berlin Chen *et al* (IEEE Trans SAP, July 2002), published less than a year before the foreign priority date of the instant application, includes a portion written by the inventor, teaching his syllable-based approach to information retrieval.

John H. L. Hansen (IEEE Trans SAP, September 2005) reviews the various approaches used in spoken document retrieval from speech queries.

5. This application is in condition for allowance except for the following formal matters: the need to correct the multiple dependency of claim 34.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Talivaldis Ivars Smits whose telephone number is 571-272-7628. The examiner can normally be reached on 8:30 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

6/19/2007

TALIVALDIS IVARS SMITS PRIMARY EXAMINER